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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,944	12/12/2003	Sten R. Gerfast		8717

7590 05/20/2005  
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EXAMINER

NGUYEN, TRAN N

ART UNIT PAPER NUMBER

2834

DATE MAILED: 05/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

<b>Office Action Summary</b>	<b>Application No.</b> 10/733,944	<b>Applicant(s)</b> GERFAST, STEN R.	
	<b>Examiner</b> Tran N. Nguyen	<b>Art Unit</b> 2834	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☐ Claim(s) 1-22 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 9-18 is/are allowed.
- 6) ☐ Claim(s) 1,2,4-8 and 19-22 is/are rejected.
- 7) ☐ Claim(s) 3 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

**Claims 1-22** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, and claim 9, “each (salient poles) including alternatively wound coils forming a single coil with two free ends” is indefinite because it is unclear. The recitation can be understood as:

(a) each poles including a plural coils (*since it is written in plural form*) that are alternately wound and all the coils form two free end for each pole; or,  
(b) each poles including a single coil, and the coil of adjacent poles are alternately wound, wherein each coil of each pole form two free end; or

(c) each poles including a single coil, and the coil of adjacent poles are alternately wound, wherein number of coils selectedly connected together to form a single coil with two free end.

In light of the spec, the understanding of (c) is read as the interpretation for the prosecution of the merit herein.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. **Claims 1-2, 4-8, and 19-22** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Weissensteiner** (US PgPub 2004/0232796 A1) in view of **Namikawa** (JP 6-76976).

**Regarding claims 1-2, 4, 6-8, 19-22, Weissensteiner** discloses an electrical machine that can be operated as a generator comprising:

a rotor (6) having a plurality poles (5);

a stator (1) with the same number of poles (4), as the number of rotor's poles, each pole having each coil (3) alternately each poles including a single coil, and the coil of adjacent poles are alternately wound wherein number of coils selectedly connected together to form a single coil with two free end; wherein

the coils are in positions in front of the rotor poles to generate AC at all time, and the generator has a permanent magnet rotor and the stator poles having same dimensional width as the rotor poles (see figs 1-2) and the generator is a brushless and void of slip rings.

Weissensteiner further discloses that the individual coils of which can be opened with separate outlets or paralleled. The coils consist of coil section alternating on the periphery of stator. The multiple coiling consists of a stator coils consisting of two coils, separately wired to consumer devices with coil sections on the periphery of the stator in alternative sequence and connected in series. In general, Weissensteiner discloses that it

is based upon the application of the output, the coils can be configured as individual coil with two free ends or being grouped up in connection.

Weissensteiner substantially discloses the claimed invention, except for the limitations of the following:

(a) the coils form a single coil with two free ends generating an AC load, particularly the output is split into AC and rectified DC;

(b) the AC output is rectified by four diodes in a bridge circuit and then connected to a DC load, wherein the load having a capacitor connected across.

**Namikawa**, however, teaches a DC load (light) with the inverter circuit where the AC output split into AC and rectified DC by four diodes in a bridge circuit (2) and then connected to a DC load, wherein the load having a capacitor (6) connected across (fig 1) for the purpose of reducing noise and flicker.

Thus, it would have been obvious to one skilled in the art at the time the invention was made to modify the generator by embodying a circuit having AC output split into AC and rectified DC by four diodes in a bridge circuit and then connected to a DC load, wherein the load having a capacitor connected across, as taught by **Namikawa**. Doing so would reduce noise and flicker to the DC load, particularly if the load is a lighting.

**Regarding claim 5**, the claw pole rotor is well known in alternator, i.e., alternative current generator. Thus, it would have been obvious to one skilled in the art at the time the invention was made to modify the generator by embodying a claw pole rotor in the generator. Doing so would enable to provide an alternator for a suitable industrial application such as in vehicle. Also, the claw pole rotor is well known in the art.

***Allowable Subject Matter***

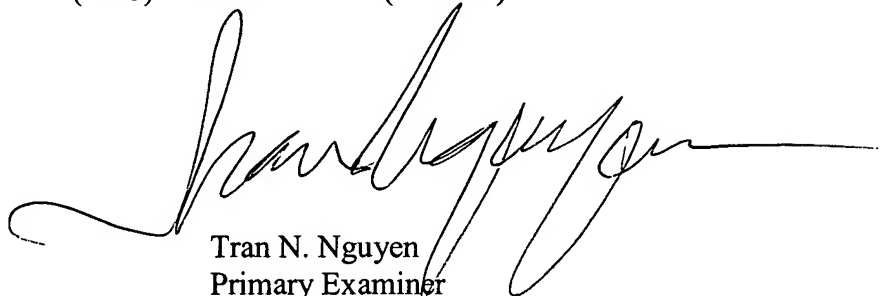
**Claims 9-18** are allowed.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran N. Nguyen whose telephone number is (571) 272-2030. The examiner can normally be reached on M-F 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Tran N. Nguyen  
Primary Examiner  
Art Unit 2834